

Molecular Serotyping of *Escherichia coli* O111:H8

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Bacterial isolates were kindly provided by or obtained from: The *E. coli* Reference Center (ECRC), Pennsylvania State University; American Type Culture Collection (ATTC), Manassas, VA; D. Francis, South Dakota State University, Brookings, SD; D. Acheson, Food and Drug Administration, College Park, MD; J. Johnson, University of Minnesota Veterans Hospital, Minneapolis, MN; Centers for Disease Control and Prevention, Atlanta, GA; and Texas Department of Health, Austin, TX. USMARC strains were isolated by scientists at the U.S. Meat Animal Research Center, Clay Center, NE.

Supplementary Data Table 1: O111:H8 serotype data

ID	O Serotype	O111 by PCR	H Serotype	H8 by PCR	Original Source Location	Original Source Organism	Received From	O111 Sensitivity	O111 Specificity	H8 Sensitivity	H8 Specificity	HN	HN M
MARC05-1010	1	neg	8	+	unknown	Armadillo	ECRC		x	x			
MARC05-997	39	neg	8	+	unknown	Bovine	ECRC		x	x			
MARC05-995	96	neg	unknown	neg	unknown	Bovine	ECRC		x				
MARC05-1002	105	neg	8	+	unknown	Bovine	ECRC		x	x			
MARC05-1014	170	neg	8	+	unknown	Bovine	ECRC		x	x			
TW04519	111	+	H-	+	Scotland (Edinburgh)	Calf	ECRC	x				x	
DEC 8C	111	+	hn	neg	South Dakota	Calf	ECRC	x				x	
S123	111	+	NM	+	MARC, NE	carcass wash	USMARC	x				x	
S124	111	+	NM	+	MARC, NE	carcass wash	USMARC	x				x	
MARC05-1015	88	neg	8	+	unknown	Deer	ECRC		x	x			
MARC05-1006	117	neg	8	+	unknown	Dog	ECRC		x	x			
MARC05-1000	132	neg	8	+	unknown	Duck	ECRC		x	x			
MARC05-1001	150	neg	8	+	unknown	Duiker	ECRC		x	x			
MARC05-1013	1	neg	8	+	unknown	Eagle	ECRC		x	x			
S125	111	+	NM	+	Colorado	feces, cattle	USMARC	x				x	
S126	111	+	NM	+	Colorado	feces, cattle	USMARC	x				x	
S127	111	+	NM	+	Florida	fly	USMARC	x				x	
NCF 1-3	111	+	unknown	+	North Carolina	fly - horn	USMARC	x					
NCF 3-1	111	+	unknown	+	North Carolina	fly - horn	USMARC	x					
NCF 3-4	111	+	unknown	+	North Carolina	fly - horn	USMARC	x					
NCF 4-1	111	+	unknown	+	North Carolina	fly - horn	USMARC	x					
NCF 5-2	111	+	unknown	+	North Carolina	fly - horn	USMARC	x					
MARC05-1004	41	neg	8	+	unknown	Food	ECRC		x	x			
MARC05-1009	82	neg	8	+	unknown	Food	ECRC		x	x			
MARC05-1003	22	neg	8	+	unknown	Goose	ECRC		x	x			
MARC05-1012	113	neg	8	+	unknown	Goral	ECRC		x	x			
MARC05-1007	58	neg	unknown	neg	unknown	Human	ECRC		x				
MARC05-996	109	neg	8	+	unknown	Human	ECRC		x	x			
Dec 12A	111	+	2	neg	England	Human	ECRC	x				x	
DEC 8D	111	+	2	neg	Cuba	Human	ECRC	x				x	
BE99-1161	111	+	8	+	Texas	Human	TDH	x		x			
DEC 8B	111	+	8	+	Idaho	Human	ECRC	x		x			
6B	111	+	12	neg	Germany	Human	ECRC	x			x		
Dec 15E	111	+	12	neg	Texas	Human	ECRC	x			x		
Dec 6A	111	+	12	neg	New Jersey	Human	ECRC	x			x		

ID	O Serotype	O111 by PCR	H Serotype	H8 by PCR	Original Source Location	Original Source Organism	Received From	O111 Sensitivity	O111 Specificity	H8 Sensitivity	H8 Specificity	HN	HN M
Dec 6C	111	+	12	neg	Guatemala	Human	ECRC	x			x		
Dec 6D	111	+	12	neg	Italy	Human	ECRC	x			x		
29552	111	+	21	neg	unknown	Human	unknown	x			x		
DEC 12D	111	+	21	neg	Peru	Human	ECRC	x			x		
DEC 12E	111	+	21	neg	Kenya	Human	ECRC	x			x		x
Dec 15A	111	+	21	neg	New Jersey	Human	ECRC	x			x		
Dec 15B	111	+	21	neg	Wisconsin	Human	ECRC	x			x		
Dec 15C	111	+	21	neg	California	Human	ECRC	x			x		
Dec 15D	111	+	21	neg	New Hampshire	Human	ECRC	x			x		
TW 05651	111	+	H-	+	Italy	Human	ECRC	x			x		
Dec 12B	111	+	HN	neg	Florida	Human	ECRC	x			x		
DEC 6E	111	+	HN	neg	Brazil	Human	ECRC	x			x		
DEC 8A	111	+	HN	neg	Maryland	Human	ECRC	x			x		
TW04257	111	+	HN	+	Washington	Human	ECRC	x			x		
18	111	+	NM	+	MA	Human	Acheson	x			x		
43887	111	+	NM	neg	unknown	Human	ATCC	x			x		
BE00-749	111	+	NM	+	Texas, Dallas	Human	TDH	x			x		
BR00-381	111	+	NM	+	Texas, Tyler	Human	TDH	x			x		
Stoke W (33780)	111	+	NM	neg	unknown	Human	ATCC	x			x		
TW06315	111	+	NM	+	Nebraska	Human	ECRC	x			x		
9-54	111	+	unknown	+	unknown	Human	Acheson	x			x		
TW05614	111	+	unknown	+	Germany	Human	ECRC	x			x		
TW07502	111	+	unknown	+	Germany	Human	ECRC	x			x		
MARC05-1008	118	neg	8	+	unknown	Human	ECRC		x		x		
EC72	144	neg	unknown	neg	Sweden	human (UTI)	ECRC		x		x		
EC 58	112	neg	8	+	Washington (zoo)	Lion (healthy)	ECRC		x		x		
MARC05-994	112	neg	8	+	unknown	Mink	ECRC		x		x		
MARC05-1005	163	neg	8	+	unknown	Pigeon	ECRC		x		x		
MARC05-999	24	neg	8	+	unknown	Rat	ECRC		x		x		
MARC05-998	56	neg	8	+	unknown	Sheep	ECRC		x		x		
MARC05-1011	107	neg	8	+	unknown	Sheep	ECRC		x		x		
CDC standard O1	1	neg	7	neg	unknown	unknown	CDC	x			x		
CDC standard O2	2	neg	4	neg	unknown	unknown	CDC	x			x		
CDC standard O3	3	neg	2	neg	unknown	unknown	CDC	x			x		
CDC standard O4	4	neg	5	neg	unknown	unknown	CDC	x			x		
CDC standard O5	5	neg	4	neg	unknown	unknown	CDC	x			x		
CDC standard O6	6	neg	1	neg	unknown	unknown	CDC	x			x		
CDC standard O7	7	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O8	8	neg	4	neg	unknown	unknown	CDC	x			x		
CDC standard O9	9	neg	12	neg	unknown	unknown	CDC	x			x		
CDC standard O10	10	neg	4	neg	unknown	unknown	CDC	x			x		
CDC standard O11	11	neg	10	neg	unknown	unknown	CDC	x			x		
CDC standard O12	12	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O13	13	neg	11	neg	unknown	unknown	CDC	x			x		
CDC standard O14	14	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O15	15	neg	4	neg	unknown	unknown	CDC	x			x		
CDC standard O16	16	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O17	17	neg	18	neg	unknown	unknown	CDC	x			x		
CDC standard O18	18	neg	14	neg	unknown	unknown	CDC	x			x		
CDC standard O20	20	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O21	21	neg	NM	neg	unknown	unknown	CDC	x			x		
CDC standard O22	22	neg	1	neg	unknown	unknown	CDC	x			x		

ID	O Serotype	O111 by PCR	H Serotype	H8 by PCR	Original Source Location	Original Source Organism	Received From	O111 Sensitivity	O111 Specificity	H8 Sensitivity	H8 Specificity	HN	HN M
CDC standard O23	23	neg	15	neg	unknown	unknown	CDC		x		x		
CDC standard O24	24	neg	NM	neg	unknown	unknown	CDC		x		x		
CDC standard O25	25	neg	12	neg	unknown	unknown	CDC		x		x		
CDC standard O26	26	neg	11	neg	unknown	unknown	CDC		x		x		
CDC standard O27	27	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O28	28	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O29	29	neg	10	neg	unknown	unknown	CDC		x			x	
CDC standard O30	30	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O32	32	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O33	33	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O34	34	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O35	35	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O36	36	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O37	37	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O38	38	neg	26	neg	unknown	unknown	CDC		x		x		
CDC standard O39	39	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O40	40	neg	4	neg	unknown	unknown	CDC		x		x		
CDC standard O41	41	neg	40	neg	unknown	unknown	CDC		x		x		
CDC standard O42	42	neg	37	neg	unknown	unknown	CDC		x		x		
CDC standard O43	43	neg	2	neg	unknown	unknown	CDC		x		x		
CDC standard O44	44	neg	18	neg	unknown	unknown	CDC		x		x		
CDC standard O45	45	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O46	46	neg	16	neg	unknown	unknown	CDC		x		x		
CDC standard O48	48	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O49	49	neg	12	neg	unknown	unknown	CDC		x		x		
CDC standard O50	50	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O51	51	neg	24	neg	unknown	unknown	CDC		x		x		
CDC standard O52	52	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O53	53	neg	3	neg	unknown	unknown	CDC		x		x		
CDC standard O54	54	neg	2	neg	unknown	unknown	CDC		x		x		
CDC standard O55	55	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O56	56	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O57	57	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O58	58	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O59	59	neg	19	neg	unknown	unknown	CDC		x			x	
CDC standard O60	60	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O61	61	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O62	62	neg	30	neg	unknown	unknown	CDC		x		x		
CDC standard O63	63	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O64	64	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O65	65	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O66	66	neg	25	neg	unknown	unknown	CDC		x			x	
CDC standard O68	68	neg	4	neg	unknown	unknown	CDC		x		x		
CDC standard O69	69	neg	38	neg	unknown	unknown	CDC		x		x		
CDC standard O70	70	neg	38	neg	unknown	unknown	CDC		x		x		
CDC standard O71	71	neg	12	neg	unknown	unknown	CDC		x		x		
CDC standard O73	73	neg	31	neg	unknown	unknown	CDC		x		x		
CDC standard O74	74	neg	39	neg	unknown	unknown	CDC		x		x		
CDC standard O75	75	neg	5	neg	unknown	unknown	CDC		x		x		
CDC standard O76	76	neg	8	+	unknown	unknown	CDC		x			x	
CDC standard O77	77	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O78	78	neg	NM	neg	unknown	unknown	CDC		x				

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H017	78	neg	unknown	neg	unknown	unknown	unknown	x					
CDC standard O79	79	neg	40	neg	unknown	unknown	CDC	x			x		
CDC standard O80	80	neg	26	neg	unknown	unknown	CDC	x			x		
CDC standard O81	81	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O82	82	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O83	83	neg	31	neg	unknown	unknown	CDC	x			x		
CDC standard O84	84	neg	21	neg	unknown	unknown	CDC	x			x		
CDC standard O85	85	neg	1	neg	unknown	unknown	CDC	x			x		
CDC standard O86	86	neg	25	neg	unknown	unknown	CDC	x			x		
CDC standard O87	87	neg	12	neg	unknown	unknown	CDC	x			x		
CDC standard O88	88	neg	25	neg	unknown	unknown	CDC	x			x		
CDC standard O89	89	neg	16	neg	unknown	unknown	CDC	x			x		
CDC standard O90	90	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O91	91	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O92	92	neg	unknown	neg	unknown	unknown	CDC	x					
CDC standard O95	95	neg		NM	+	unknown	unknown	CDC	x				
CDC standard O96	96	neg	19	neg	unknown	unknown	CDC	x			x		
CDC standard O97	97	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O98	98	neg	8	+	unknown	unknown	CDC	x		x			
CDC standard O99	99	neg	33	neg	unknown	unknown	CDC	x			x		
CDC standard O100	100	neg	2	neg	unknown	unknown	CDC	x			x		
CDC standard O101	101	neg	33	neg	unknown	unknown	CDC	x			x		
CDC standard O102	102	neg	8	neg	unknown	unknown	CDC	x		x			
H511	102	neg	unknown	neg	unknown	unknown	unknown	x					
CDC standard O103	103	neg		8	+	unknown		x		x			
H515b	103	neg	8	+	unknown	unknown	unknown	x		x			
CDC standard O104	104	neg	12	neg	unknown	unknown		x			x		
CDC standard O105	105	neg	8	+	unknown	unknown	CDC	x		x			
CDC standard O106	106	neg	33	neg	unknown	unknown	CDC	x			x		
CDC standard O107	107	neg	27	neg	unknown	unknown	CDC	x			x		
CDC standard O108	108	neg	10	neg	unknown	unknown	CDC	x			x		
CDC standard O109	109	neg	19	neg	unknown	unknown	CDC	x			x		
CDC standard O110	110	neg	39	neg	unknown	unknown	CDC	x			x		
CDC O111 standard	111	+	2	neg	unknown	unknown	CDC	x					
87.0518	111	+	4	neg	unknown	unknown	ECRC	x			x		
82.0549	111	+	7	neg	unknown	unknown	ECRC	x			x		
88-4110	111	+	11	neg	unknown	unknown	SDSU	x			x		
95.0122	111	+	NM	+	unknown	unknown	ECRC	x				x	
3007-85	111	+	NM	+	unknown	unknown	ECRC	x			x		
5720 B170	111	neg	NM	neg	unknown	unknown	CDC	x			x		
88-19539	111	+	NM	neg	unknown	unknown	SDSU	x			x		
B171	111	+	unknown	neg	unknown	unknown	unknown	x					
B171-4	111	+	unknown	neg	unknown	unknown		x					
CDC standard O112	112	neg	unknown	neg	unknown	unknown	CDC	x					
CDC standard O113	113	neg	21	neg	unknown	unknown	CDC	x			x		
CDC standard O114	114	neg	unknown	neg	unknown	unknown	CDC	x					
CDC standard O115	115	neg	18	neg	unknown	unknown	CDC	x			x		
CDC standard O116	116	neg	10	neg	unknown	unknown	CDC	x			x		
CDC standard O117	117	neg	4	neg	unknown	unknown	CDC	x			x		
V11	117	neg	unknown	neg	unknown	unknown	Johnson	x					
CDC standard O118	118	neg	NM	neg	unknown	unknown	CDC	x					
CDC standard O119	119	neg	27	neg	unknown	unknown	CDC	x			x		

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CDC standard O120	120	neg	6	neg	unknown	unknown	CDC		x		x		
CDC standard O121	121	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O123	123	neg	16	neg	unknown	unknown	CDC		x		x		
CDC standard O124	124	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O125	125	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O126	126	neg	2	neg	unknown	unknown	CDC		x		x		
CDC standard O127	127	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O128	128	neg	2	neg	unknown	unknown	CDC		x		x		
DEC 10G	128	neg	8	+	unknown	unknown	ECRC		x	x			
CDC standard O129	129	neg	44	neg	unknown	unknown	CDC		x		x		
CDC standard O130	130	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O131	131	neg	26	neg	unknown	unknown	CDC		x		x		
CDC standard O132	132	neg	28	neg	unknown	unknown	CDC		x		x		
CDC standard O133	133	neg	29	neg	unknown	unknown	CDC		x		x		
CDC standard O134	134	neg	35	neg	unknown	unknown	CDC		x		x		
CDC standard O135	135	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O136	136	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O137	137	neg	41	neg	unknown	unknown	CDC		x		x		
CDC standard O138	138	neg	14	neg	unknown	unknown	CDC		x		x		
CDC standard O139	139	neg	1	neg	unknown	unknown	CDC		x		x		
CDC standard O140	140	neg	43	neg	unknown	unknown	CDC		x		x		
CDC standard O141	141	neg	4	neg	unknown	unknown	CDC		x		x		
CDC standard O142	142	neg	6	neg	unknown	unknown	CDC		x		x		
CDC standard O143	143	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O144	144	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O145	145	neg	NM	neg	unknown	unknown	CDC		x				
CDC standard O146	146	neg	21	neg	unknown	unknown	CDC		x		x		
CDC standard O147	147	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O148	148	neg	28	neg	unknown	unknown	CDC		x		x		
CDC standard O149	149	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O150	150	neg	6	neg	unknown	unknown	CDC		x		x		
CDC standard O151	151	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O152	152	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O153	153	neg	7	neg	unknown	unknown	CDC		x		x		
CDC standard O154	154	neg	4	neg	unknown	unknown	CDC		x		x		
CDC standard O155	155	neg	9	neg	unknown	unknown	CDC		x		x		
CDC standard O156	156	neg	47	neg	unknown	unknown	CDC		x		x		
CDC standard O157	157	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O158	158	neg	23	neg	unknown	unknown	CDC		x		x		
CDC standard O159	159	neg	20	neg	unknown	unknown	CDC		x		x		
CDC standard O160	160	neg	34	neg	unknown	unknown	CDC		x		x		
CDC standard O161	161	neg	54	neg	unknown	unknown	CDC		x		x		
CDC standard O162	162	neg	10	neg	unknown	unknown	CDC		x		x		
CDC standard O163	163	neg	19	neg	unknown	unknown	CDC		x		x		
CDC standard O164	164	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O165	165	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O166	166	neg	4	neg	unknown	unknown	CDC		x		x		
CDC standard O167	167	neg	H-	neg	unknown	unknown	CDC		x				
CDC standard O168	168	neg	H-	neg	unknown	unknown	CDC		x				
CDC standard O169	169	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O170	170	neg	1	neg	unknown	unknown	CDC		x				
CDC standard O171	171	neg	unknown	neg	unknown	unknown	CDC		x				

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CDC standard O172	172	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O173	173	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O174	174	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O175	175	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O176	176	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O177	177	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O178	178	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O179	179	neg	unknown	+	unknown	unknown	CDC		x				
CDC standard O180	180	neg	unknown	neg	unknown	unknown	CDC		x				
CDC standard O181	181	neg	unknown	neg	unknown	unknown	CDC		x		x		
I	149w	neg	8N	+	unknown	unknown	Johnson		x	x			
L	169w	neg	8	+	unknown	unknown	Johnson		x	x			
CDC standard 19a	19a	neg	na	neg	unknown	unknown	CDC		x				
43895	O157	neg	H7	neg	unknown	unknown	ATCC		x		x		
Alcaligenes faecalis 8750	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Cedereia lapajei 33432	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Citrobacter freundii 08090	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
E. fergusonii 35469	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Edwardsiella tarda 15947	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Enterobacter aerogenes 13048	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Escherichia hermanii 33650	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Escherichia vulgaris 33821	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Hafnia alvei 13337	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Klebsiella oxytoca 8724	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Lemnirella grimondii 33999	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Mogranella 25830	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Pasteurella multocida 12948	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Proteus mirabilis 7002	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Proteus vulgaris 6896	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Providencia reteueri 29944	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Providencia stuartii 29914	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Pseudomonas aeruginosa 10145	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Salmonella adelaide 10718	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Shigella flexneri 12022	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Stenotrophomonas maltophilia 13637	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Yersinia enterocolitica 9610	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
Yersinia pseudotuberculosis 29910	unknown	unknown	na	neg	unknown	unknown	ATCC		x		x		
DEC 8A	111	+	HN	+	Maryland			x			x		
MARC05-855	111	+	NM	neg	unknown			x			x		

51 pos

54

228

32

147

7

16